# Translation

## 10/537820 PATENT COOPERATION TREATY



#### **PCT**

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference						
B02/0661PC	FOR FURTHER ACTION	Preliminary E	ation of Transmittal of International Examination Report (Form PCT/IPEA/416)			
International application No. PCT/EP2003/013624	International filing date (day/	month/year)	Priority date (day/month/year)			
	03 December 2003 (03	.12.2003)	04 December 2002 (04.12.2002)			
International Patent Classification (IPC) or no C01B 3/02	ational classification and IPC					
C01B 3/02						
Applicant						
Approvant	BASF AKTIENGESELI	SCHAFT				
1. This international preliminary events						
and is transmitted to the applicant acc	nation report has been prepared cording to Article 36.	by this Internat	tional Preliminary Examining Authority			
2. This REPORT consists of a total of	4 sheets including	a this cover che				
amended and are the basis for	This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the RCT).					
	material and the state of the s	er the PCT).	The state of the s			
These annexes consist of a tota	of sheets.					
3. This report contains indications relating to the following items:						
I Basis of the report						
II Priority						
III Non-establishment of	opinion with regard to novelty,	inventive step a	and industrial applicability			
IV Lack of unity of inven			,			
V Reasoned statement ur citations and explanati	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;					
VI Certain documents cite						
VII Certain defects in the in	VII Certain defects in the international application					
VIII Certain observations or	the international application					
Date of submission of the demand	of submission of the demand  Date of completion of this report		is report			
05 July 2004 (05.07.2004) 20 June 2005 (20.06.2005)		e 2005 (20.06.2005)				
Name and mailing address of the IPEA/EP	Authorize	d officer				
Facsimile No.	Telephone	: No.				

Form PCT/IPEA/409 (cover sheet) (July 1998)

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

I. Basis of the report	PCT/EP2003/013624
1. With regard to the elements of the international application:*	
the international application as originally filed	
the description:	
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pages 1-11	, as originally file
pages	filed with the dame.
the claims:	f
pages	
1-9	as originally st
, as amended (toget	, as originally file
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- January Branch	
pagespages	
pages, filed with the letter of	, filed with the demand
the sequence listing part of the description:	
pages	, as originally filed
pages  pages, filed with the letter of	, filed with the demand
the language of the translation furnished for the purposes of international preliminary or 55.3).  With regard to any nucleotide and/or amino acid sequence disclosed in the international preliminary examination was carried out on the basis of the sequence listing:  contained in the international application in written form.  filed together with the international application in computer readable form.  furnished subsequently to this Authority in written form.	y examination (under Rule 55.2 and/ tional application, the international
Turnished subsequently to this Authority in computer readable form	
international application as filed has been furnished	go beyond the disclosure in the
The statement that the information recorded in computer readable form is identical been furnished.	to the written sequence listing has
The amendments have resulted in the cancellation of:	
the description, pages	
the claims, Nos.	
the drawings, sheets/fig	
This report has been established as if (some of) the amendments had not been made, sinc beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	te they have been considered to go
eplacement sheets which have been furnished to the receiving Office in response to an invitation this report as "originally filed" and are not annexed to this report since they do not be 170.17).	on under Article 14 are referred to
ny replacement sheet containing such amendments must be referred to under item 1 and annexed	d to this report.
PCT/IPEA/409 (Box I) (July 1998)	

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International application No. PCT/EP 03/13624

v. ——	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicabil citations and explanations supporting such statement	lity;

I. Statement			
Novelty (N)	Claims	1-9	YES
	Claims		NO NO
Inventive step (IS)	Claims	1-9	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-9	YES
	Claims		NO
Citations and explanations			

- 2. Citations and explanations
  - (i) Reference is made to the following document:

D1: DE-C-477437 (IG FARBENINDUSTRIE)

(ii) The present application satisfies the requirements of PCT Article 33(1).

D1 (cited on page 2, line 34 to page 3, line 4 of the application) discloses the production of hydrocyanic acid by the cleavage of formamide in a V2A tubular steel reactor and, according to example 3, no catalyst is used in this method. V2A is the name (known to a person skilled in the art) of a steel consisting of iron, chromium and nickel. The subject matter of claims 1-8 of the present application differs from this prior art by virtue of the presence of atmospheric oxygen in the feedstock gas. The present method is therefore novel.

As a result of the fact that the reactor has no additional fittings and/or catalyst, the method in claim 1 can be carried out at a higher pressure than the method known from D1 without loss of conversion. The method therefore also involves an inventive step.

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Although D1 also describes the use of a reactor containing iron, chromium and nickel without a catalyst for the production of hydrocyanic acid from formamide, the use of such a reactor, as defined in claim 9, for the production of hydrocyanic acid from formamide in the presence of oxygen is not known from D1 and is inventive.

(iii) The description has not been brought into line with the amended claims.